

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	69052	(pulse near width near modulat\$3) pwm	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 13:17
L2	1055806	((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 13:17
L3	6799	(Bemf bemv beme (back near (emf emv eme electromotive (electro adj motive) electro-motive))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 13:17
L4	229957	(power near2 (loss lose fail\$3 down interupt\$4 off fault)) powerloss powerlose powerfail\$3 powerdown powerinterupt\$4 poweroff powerfault power-loss power-lose power-fail\$3 power-down power-interupt\$4 power-off power-fault spin-down spindown (spin near down)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 13:17
L5	2629252	(retract\$3 load\$3 unload\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 13:17
L6	11331	L5 same L1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 13:17
L7	72	L2 and L3 and L4 and L6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 13:17
L8	706031	transistor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 13:17

L9	717386	capacitor boost\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 13:18
L10	57	7 and 8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 13:19
L11	47	10 and 9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 13:19
L12	96799	"360".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 13:19
L13	3	11 and 12	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 13:19
S1	2	"20040100722"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 11:22
S2	2	"20030227707"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 09:05
S3	26	(US-20020141101-\$ or US-20020141102-\$ or US-20020176202-\$ or US-20030227707-\$).did. or (US-5204593-\$ or US-5325030-\$ or US-5455496-\$ or US-5495156-\$ or US-5729399-\$ or US-5768045-\$ or US-6025968-\$ or US-6094020-\$ or US-6140784-\$ or US-6160368-\$ or US-6362929-\$ or US-6396652-\$ or US-6476996-\$ or US-6549359-\$ or US-6563286-\$ or US-6566832-\$ or US-6594102-\$ or US-6631045-\$ or US-6650498-\$ or US-6765746-\$).did. or (RD-440188-\$).did. or (NNRD440188).tban.	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2005/02/02 12:49

S4	2	"6710964".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 09:38
S5	67	vacuum near slider	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 10:29
S6	1054292	((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 11:24
S7	17	S5 and S6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 10:38
S8	104889	(fly\$3 flight head transducer) near (height attitude gap (distance)) attitude fly-height flying-height flight-height	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 10:43
S9	7787086	reduc\$3 decreas\$3 attenuat\$3 abat\$3 shorten limit\$3 restrict\$3 curtail\$3 restrain\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 12:50
S10	36408	(increas\$3 augment\$3) near2 (rpm rpms speed velocity) with (spindle rotat\$6 dis\$1 platter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 11:07
S11	11373	S9 with S8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 11:08
S12	115	S10 same S11	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 11:09
S13	99	S12 and S6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 11:08

S14	60	S10 with S11	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 11:10
S15	53	S13 and S14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 11:10
S16	21524	load\$3 near2 (head transducer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 12:49
S17	7904412	reduc\$3 decreas\$3 attenuat\$3 abat\$3 shorten limit\$3 restrict\$3 curtail\$3 restrain\$3 slow\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:27
S18	69053	(S17 near4 (rpm rpms speed velocity)) with (spindle rotat\$6 dis\$1 platter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 12:53
S19	97	S16 same S18	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 12:53
S20	1054292	((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 12:54
S21	77	S19 and S20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 12:56
S22	35881	(spindle near motor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 12:56
S23	14784	(voice near coil near motor) vcm	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 12:58

S24	62517	(spindle spm) near4 driv\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 12:58
S25	1427	((voice near coil near motor) (coil near motor) vcm) near4 driver	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 12:59
S26	658	S22 and S23 and S24 and S25	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 12:59
S27	7	S26 and S21	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:03
S28	25	(US-20010012176-\$ or US-20010012182-\$ or US-20010043438-\$ or US-20020030937-\$).did. or (US-5422760-\$ or US-5452277-\$ or US-5708540-\$ or US-5854720-\$ or US-5864444-\$ or US-6147841-\$ or US-6198603-\$ or US-6243222-\$ or US-6243226-\$ or US-6285521-\$ or US-6366429-\$ or US-6377418-\$ or US-6413608-\$ or US-6414809-\$ or US-6433966-\$ or US-6452750-\$ or US-6493184-\$ or US-6512650-\$ or US-6525909-\$ or US-6535353-\$ or US-6556381-\$).did.	US-PGPUB; USPAT	OR	ON	2005/02/02 13:10
S29	1054292	((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:27
S30	104889	(fly\$3 flight head transducer) near (height attitude gap (distance)) attitude fly-height flying-height flight-height	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:27
S31	7787086	reduc\$3 decreas\$3 attenuat\$3 abat\$3 shorten limit\$3 restrict\$3 curtail\$3 restrain\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:27

S32	36408	(increas\$3 augment\$3) near2 (rpm rpms speed velocity) with (spindle rotat\$6 dis\$1 platter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:27
S33	11373	S31 with S30	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:27
S34	115	S32 same S33	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:27
S35	99	S34 and S29	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:27
S36	60	S32 with S33	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:27
S37	53	S35 and S36	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:35
S38	21524	load\$3 near2 (head transducer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:27
S39	7904412	reduc\$3 decreas\$3 attenuat\$3 abat\$3 shorten limit\$3 restrict\$3 curtail\$3 restrain\$3 slow\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:27
S40	69053	(S39 near4 (rpm rpms speed velocity)) with (spindle rotat\$6 dis\$1 platter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:27
S41	97	S38 same S40	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:27

S42	1054292	(((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:27
S43	77	S41 and S42	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:27
S44	1	S43 and S37	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:34
S45	69052	(pulse near width near modulat\$3) pwm	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 11:23
S46	1055806	(((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 11:24
S47	48107	(spindle near2 motor) spm	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 11:24
S48	706031	transistor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 13:17
S49	21	S45 same S47 same S48	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 11:29
S50	19	S46 and S49	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 11:41

S51	6799	(Bemf bemv berne (back near (emf emv eme electromotive (electro adj motive) electro-motive)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 11:42
S52	325333	(detect\$3 determin\$3 sens\$3 calculat\$3) with phase	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 11:43
S53	589	S52 with S51	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 11:43
S54	55	S53 same S47	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 11:44
S55	55	S54 and S46	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 11:52
S56	7	("6243222" "6396652" "5754355").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 11:53
S57	0	S56 and S45	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 12:05
S58	229957	(power near2 (loss lose fail\$3 down interrupt\$4 off fault)) powerloss powerlose powerfail\$3 powerdown powerinterrupt\$4 poweroff powerfault power-loss power-lose power-fail\$3 power-down power-interrupt\$4 power-off power-fault spin-down spindown (spin near down)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 12:07
S59	2629252	(retract\$3 load\$3 unload\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 12:08

S60	11331	S59 same S45	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 12:09
S61	72	S46 and S51 and S58 and S60	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/04 13:17